**3GPP TSG-SA5 Meeting #162 *S5-253926***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Rel-19 CR TS 28.554 Add NG-RAN estimated carbon emission KPI |
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| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | Energy\_OAM\_Ph3 |  | ***Date:*** | 2025-08-15 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | Rel-19 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | Based on the gNB Estimated Carbon Emission KPI in clause 6.7.7, it is proposed to add NG-RAN Estimated Carbon Emission KPI accordingly. |
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| ***Summary of change:*** | Add NG-RAN Estimated Carbon Emission KPI which is obtained by summing up the Estimated Carbon Emission of all the gNBs that constitute the NG-RAN. |
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| ***Consequences if not approved:*** | Lack of NG-RAN level Estimated Carbon Emission KPI. |
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| ***Clauses affected:*** | new 6.7.7.X |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Change** |

#### 6.7.7.X NG-RAN Estimated Carbon Emission

a) ECENG-RAN

b) This KPI provides the Estimated Carbon Emission (ECE) of the NG-RAN over a time period. It is obtained by summing up the Estimated Carbon Emission of all the gNBs that constitute the NG-RAN.

b-1) kg CO2eq

b-2) CUM

c)

d) Subnetwork

NOTE: ng-eNB is not considered in this KPI.

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| **End of change** |